STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/573,600
Source: IFW P
Date Processed by STIC: 4/6/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/573,600

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
11	Use of <220>	Sequence(s) ___ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

IFWP

RAW SEQUENCE LISTING DATE: 04/06/2006
PATENT APPLICATION: US/10/573,600 TIME: 10:49:35

Input Set : A:\UPN-P3230-sequence listing.txt
Output Set: N:\CRF4\04062006\J573600.raw

<110> APPLICANT: The Trustees of the University of Pennsylvania
Wilson, James M.
Gao, Guangping
Alvira, Mauricio R.
Vandenberghe, Luk H.
<120> TITLE OF INVENTION: Adeno-Associated Virus (AAV) Clades, Sequences, Vectors Containing Same, and Uses Therefor
<130> FILE REFERENCE: UPN-P3230PCT
C--> <140> CURRENT APPLICATION NUMBER: US/10/573,600
C--> <141> CURRENT FILING DATE: 2006-03-24
<150> PRIOR APPLICATION NUMBER: US 60/508,226
<151> PRIOR FILING DATE: 2003-09-30
<160> NUMBER OF SEQ ID NOS: 236
<170> SOFTWARE: PatentIn version 3.3
<210> SEQ ID NO: 1
<211> LENGTH: 2211
<212> TYPE: DNA
<213> ORGANISM: adeno-associated virus, clone hu.31
<400> SEQUENCE: 1

pgs 1-5

Does Not Comply
Corrected Diskette Needed

Invalid <213> response

see item 10 on Error Summary Sheet

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aacgctcgag gtcttgtgct tccgggttac aaatacttg gacccggcaa cggactcgac 180
aaggggggagc cggtcaacgc agcagacgcg gcggccctcg agcacgacaa ggcctacgac 240
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Input Set : A:\UPN-P3230-sequence listing.txt
Output Set: N:\CRF4\04062006\J573600.raw

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79 ggacctgcta tggccagcca caaagaagga gaggaccgtt tctttccttt gtctggatct 1620
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83 accaacgaag aagaaattaa aactactaac ccggtagcaa cggagtccta tggacaagtg 1740
85 gccacaaacc accagagtgc ccaagcacag gcgcagaccg gctgggttca aaaccaagga 1800
87 atacttccgg gtatggtttg gcaggacaga gatgtgtacc tgcaaggacc catttgggcc 1860
89 aaaattcctc acacggacgg caactttcac ccttctccgc tgatgggagg gtttggaatg 1920
91 aagcacccgc ctcctcagat cctcatcaaa aacacacctg tacctgcgga tcctccaacg 1980
93 gccttcaaca aggacaagct gaactctttc atcacccagt attctactgg ccaagtcagc 2040
95 gtggagatcg agtgggagct gcagaaggaa aacagcaagc gctggaaccc ggagatccag 2100
97 tacacttcca actattacaa gtctaataat gttgaatttg ctgttaatac tgaaggtgta 2160
99 tatagtgaac cccgccccat tggcaccaga tacctgactc gtaatctgta a 2211

102 <210> SEQ ID NO: 2
103 <211> LENGTH: 2211
104 <212> TYPE: DNA
105 <213> ORGANISM: new AAV serotype, clone hu.32
107 <400> SEQUENCE: 2

same error

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110 cagtggtgga agctcaaacc tggcccacca ccaccaaagc ccgcagagcg gcataaggac 120
112 gacagcaggg gtcttgtgct tcctgggtac aagtacctcg gacccggcaa cggactcgac 180
114 aaggggagc cggtcaacgc agcagacgcg gcggccctcg agcacgacaa ggcctacgac 240
116 cagcagctca aggccggaga caacccgtac ctcaagtaca accacgccga cgccgagttc 300
118 caggagcggc tcaaagaaga tacgtctttt gggggcaacc tcgggcgagc agtcttccag 360
120 gccaaaaaga ggcttcttga acctcttggt ctggttgagg aagcggctaa gacggctcct 420
122 ggaaagaaga ggcctgtaga gcagtctcct caggaaccgg actcctccgc gggtattggc 480
124 aaatcgggtt cacagcccgc taaaaagaaa ctcaatttcg gtcagactgg cgacacagag 540
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130 gtgggtagtt cctcgggaaa ttggcattgc gattcccaat ggctgggga cagagtcatc 720
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136 tgggggtatt ttgacttcaa cagattccac tgccacttct caccacgtga ctggcagcga 900
138 ctcatcaaca acaactgggg attccggcct aagcgactca acttcaagct cttcaacatt 960
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PATENT APPLICATION: US/10/573,600 TIME: 10:49:35

Input Set : A:\UPN-P3230-sequence listing.txt
Output Set: N:\CRF4\04062006\J573600.raw

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174 gctttcaata aggacaagct gaactctttc atcacccagt attctactgg ccaagtcagc   2040
176 gtggagattg agtgggagct gcagaaggaa aacagcaagc gctggaaccc ggagatccag   2100
178 tacacttcca actattacaa gtctaataat gttgaatttg ctgttaatac tgaaggtgta   2160
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183 <210> SEQ ID NO: 3
184 <211> LENGTH: 2211
185 <212> TYPE: DNA
186 <213> ORGANISM: adeno-associated virus, human clone 9
188 <400> SEQUENCE: 3
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191 gagtggtggg ctttgaaacc tggagccctt caacccaagg caaatcaaca acatcaagac    120
193 aacgctcgag gtcttgtgct tccgggttac aaatacttg gacccggcaa cggactcgac     180
195 aaggggagc cggtcaacgc agcagacgcg gcggccctcg agcacgacaa ggcctacgac     240
197 cagcagctca aggccggaga caacccgtac ctcaagtaca accacgccga cgccgagttc    300
199 caggagcggc tcaaagaaga tacgtctttt gggggcaacc tcgggcgagc agtcttccag    360
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219 ctcatcaaca acaactgggg attccggcct aagcgactca acttcaagct cttcaacatt    960
221 caggtcaaag aggttacgga caacaatgga gtcaagacca tcgccaataa ccttaccagc   1020
223 acggtccagg tcttcacgga ctcagactat cagctcccgt acgtgctcgg gtcggctcac   1080
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229 ccgtcgcaaa tgctaagaac gggtaacaac ttccagttca gctacgagtt tgagaacgta   1260
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239 tttgcttggc ctggagcttc ttcttgggct ctcaatggac gtaatagctt gatgaatcct   1560
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253 aagcacccgc ctcctcagat cctcatcaaa aacacacctg tacctgcgga tcctccaacg   1980
255 gccttcaaca aggacaagct gaactctttc atcacccagt attctactgg ccaagtcagc   2040
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259 tacacttcca actattacaa gtctaataat gttgaatttg ctgttaatac tgaaggtgta   2160
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264 <210> SEQ ID NO: 4
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RAW SEQUENCE LISTING DATE: 04/06/2006
PATENT APPLICATION: US/10/573,600 TIME: 10:49:35

Input Set : A:\UPN-P3230-sequence listing.txt
Output Set: N:\CRF4\04062006\J573600.raw

<211> LENGTH: 2217
<212> TYPE: DNA
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<213> ORGANISM: new AAV serotype, clone hu.6
<400> SEQUENCE: 5
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RAW SEQUENCE LISTING DATE: 04/06/2006
PATENT APPLICATION: US/10/573,600 TIME: 10:49:35

Input Set : A:\UPN-P3230-sequence listing.txt
Output Set: N:\CRF4\04062006\J573600.raw

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357 aaggggagc ccgtcaacgc ggcggacgca gcggccctcg agcacgacaa ggcctacgac    240
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Please correct this type 1 error in subsequent sequences

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PATENT APPLICATION: US/10/573,600 TIME: 10:49:36

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Output Set: N:\CRF4\04062006\J573600.raw

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